

Skills for a greener world

# **EPA Supporting Documents for**

Level 3 Maintenance and Operations Engineering Technician (Electrical System and Process Control) QAN 603/7266/7













# **EPA Supporting Documents for**

# Level 3 Maintenance and Operations Engineering Technician (Electrical System and Process Control)

QAN 603/7266/7	
Updates to the supporting documents	3
Appendix A: Glossary	4
Appendix B: Gateway Eligibility Form	5
Appendix C: Practice Knowledge Assessments: Electrical System and Process	
Control	8
Appendix D - Practical Observation and Planning Form	26
Appendix E: Practice Practical Observation Template	31
Appendix F: Practice Technical Interview Template	61
Appendix G: Portfolio Mapping Document	82



# Updates to the supporting documents

Since the first publication of the EUIAS Maintenance and Operations Engineering Technician Supporting Documents Electrical System and Process Control, the following updates have been made.

Version	Date first published	Section updated	Page(s)
v3.0	2023	Appendix C: Sample Answer Sheet	25
		Appendix G: Replaced (Assessor Use Only) with (Apprentice Input)	83 - 86
		Footer for V2.0 below stated V3.0 this has been removed. This version is v3.0	All
V2.0	2023	New template and rebranded	All
V1.0	2020	First published	All



# Appendix A: Glossary

**Amplification** – provides more detail on how individual knowledge, skills or behaviours statements should be interpreted. Where the KSB statements, themselves are deemed self-explanatory, no amplification is provided. Assessment may include questions on anything identified in the amplification

**Behaviours (as part of KSBs)** – specific mindsets, attitudes or approaches identified as part of the apprenticeship standard that must be evidenced during endpoint assessment

**Elements** – are the knowledge, skills and behaviours and what is needed to competently undertake the duties required for an occupational standard

**Gateway** - the stage of the apprenticeship where the apprentice, employer and training provider determine whether the apprentice is ready to undertake end-point assessment

**Guidance** – is only provided where it is required to support interpretation of the KSB statements

**Knowledge (as part of KSBs)** – specific information, technical detail, and 'knowhow' identified as part of the apprenticeship standard that must be evidenced during end-point assessment

**Pathways** – a specialist route within an apprenticeship standard that builds on the occupational competence for a new entrant to the occupation

**Skills (as part of KSBs)** – the practical application of knowledge identified as part of the apprenticeship standard that must be evidenced during end-point assessment

**Standard** – An occupational standard is a description of an occupation. It contains occupational profile, and describes KSBs needed for someone to be competent in the occupation's duties. Occupational standards are developed by employers for occupations that meet the Institute for Apprenticeships and Technical Education current occupation criteria

Topic - is a collection of elements grouped into a theme e.g. Health and Safety



# Appendix B: Gateway Eligibility Form

(Standard Version: ST0154 version 1.2; Assessment Plan Version: ST0154/AP02)

Apprentice's name:	Apprentice's job title:
Name of Employer:	Name of Training provider:
Employer representatives present:	Training provider representatives present:
Apprenticeship start date:	Apprenticeship on-programme end date:
Gateway meeting date:	
Has the apprentice taken any part of the end-point assessment for this apprenticeship standard with any other End Point Assessment Organisation?	Y / N
If "Yes" please give details:	



#### Apprentice's details

Eligibility requirements:

The apprentice must confirm their achievement of the following:

Eligibility requirement	Achieved by the apprentice? Y/N	Evidence (Scans of certificates MUST be included)
Achieved Level 2 English		
Achieved Level 2 Maths		
Satisfactory completion of the formal training plan agreed with apprentice by the employer		
Compiled and submitted a portfolio of evidence, on which the technical interview will be based on		

#### Gateway Eligibility Declaration

The apprentice, the employer and the training provider must sign this form to confirm that they understand and agree to the following:

- 1. The apprentice has completed the required on-programme elements of the apprenticeship and is ready for end-point assessment with EUIAS.
- 2. The apprentice will only submit their own work as part of end-point assessment.
- 3. All parties agree that end-point assessment evidence may be recorded and stored by EUIAS for quality assurance purposes.
- 4. The apprentice has been on-programme for a minimum duration of 365 days.
- 5. The apprentice has achieved English and maths Level 2 as detailed in this document.
- 6. The apprentice satisfactorily completed a formal training plan agreed by the employer.
- 7. The apprentice has produced compiled and submitted a portfolio of evidence, on which the technical interview will be based on.
- 8. The apprentice, if successful, gives permission for EUIAS to request the apprenticeship. certificate from the ESFA who issue the certificate on behalf of the Secretary of State.
- 9. The apprentice has been directed to the EUIAS Appeals Policy and Complaints Policy.



- 10. The employer/training provider has given the EUIAS at least three months' notice of requesting this EPA for this apprentice.
- 11. If the Gateway Eligibility Report is not completed in full, meeting all requirements, and submitted to EUIAS, the end-point assessment cannot take place.

Signed on behalf of the employer (print name):	Signature:	Date:
Signed on behalf of the training provider (print name):	Signature:	Date:
Apprentice's name (print):	Signature:	Date:

EUIAS use only:	
EUIAS Sign off:	
Comments/actions:	



# Appendix C: Practice Knowledge Assessments: Electrical System and Process Control



# Level: 3

#### Maintenance and Operations Engineering Technician

#### Pathway: Electrical System and Process Control

#### Paper Code: Practice Paper

This examination consists of 30 multiple-choice questions.

The Pass mark is 18 correct answers.

The Merit mark is 23 correct answers.

A merk of 26 or more is a Distinction.

The duration of this examination is 45 minutes.

You must use a **pencil** to complete the answer sheet - pens must NOT be used. When completed, please leave the examination answer sheet and question paper on the desk.

For this paper the use of a scientific calculator (non-programmable) is permitted.

For each question, fill in ONE answer ONLY.

If you make a mistake, ensure you erase it thoroughly.

You must mark your choice of answer by shading in ONE answer circle only. Please mark each choice like this:

1 (A) (B)

#### **ANSWER COMPLETED CORRECTLY**

Examples of how NOT to mark your examination answer sheet. These will not be recorded.



ANSWER COMPLETED INCORRECTLY **DO NOT** shade over more than one answer circle

**ANSWER COMPLETED INCORRECTLY** 

#### This paper must be returned to EUIAS with the apprentice answer sheets.



You may use this page for rough work.

EUIAS Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Electrical System and Process Control) Supporting Documents QAN; 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills

Page 10



On what type of installation would a technician fit this design of washer?

Possible answers		
a)	High corrosion	
b)	High temperature	
c)	High vibration	
d)	High pressure	



Question	n 2		
When ch	ecking the pressure of a system the maintenance schedule stipulates that		
the syste	the system pressure should be 10 bar with a tolerance of +/- 0.05 bar, what are the		
minimum	minimum and maximum acceptable pressures?		
Possible answers			
a)	9.95 to 10.05 bar		
b)	9.5 to 10.5 bar		

c)	9.05 to 10.5 bar			
d)	9.005 to 10.005 bar			

Question 3		
Safety critical equipment should be maintained:		
Possible answers		
a)	every twelve months	
b)	more frequently than non-safety critical equipment	
c)	less frequently than non-safety critical equipment	
d)	at the same period as safety non-critical equipment	



Which statement best describes what is meant by the terminology "specification"?

Possible answers		
a)	The capacity to endure continuous force	
b)	The standard when measured against another object of similar design	
c)	Detailed description of the design and materials of an object	
d)	The specified point beyond which certification is invalid	

Question 5			
What type of maintenance is applied when something stops working?			
Possible answers			
a)	Planned		
b)	Preventative		
c)	Corrective		
d)	Shutdown		

#### **Question 6**

What do the initials IP followed by 2 numbers refer to when seen on a piece of equipment?

Possible answers			
a)	Internal pressure		
b)	Integrity protection		
c)	Ingress protection		
d)	Increased pressure		



# Question 7Which of the following is commonly classed as safety critical?Possible answersa)Control valveb)Fusec)Steam trapd)Drain valve

Question 8			
What does the coloured tag on a piece of rigging equipment mean?			
Possible answers			
a)	Certification period		
b)	Safe working load		
c)	Maximum working load		
d)	Safe to use		

Question 9		
When seen on site, what does a green safety sign signify?		
Possible answers		
a)	Mandatory	
b)	Prohibited	
c)	Information	
d)	Warning	



Question 10		
What document should be fixed to a scaffold before a technician uses it?		
Possible answers		
a)	Risk assessment	
b)	Safety certificate	
c)	Approved Scafftag	
d)	Permit to work	

Looking at the image provided and taking into consideration risk, which task would a technician say is low probability and low in impact?

Possible answers		A.	B. ●
a)	А	<u>×</u>	
b)	В	C.	<u>AAA AAAAAA</u>
c)	С	<u>×</u>	<u>×</u>
d)	D		٨٨٨

[Turn to the next page for question 12]

Page 14



Question 12			
When pe	ersonal protection equipment is identified on the work control document,		
which of the following statements is correct?			
Possible answers			
a)	PPE is recommended		
b)	PPE is available		
c)	PPE is good practice		
d)	PPE is mandatory		

Question 13		
In accor	dance with HSE regulations, how would a technician know if a substance	
was regarded as hazardous?		
Possible answers		
a)	The container will be coloured red	
b)	It will be contained in a glass receptacle	
c)	It will have a label identifying the hazard	
d)	It will give off a strong odour	

Question 14		
According to the Confined Space Regulations 1997, which of the following locations is not regarded as a confined space?		
Possible answers		
a)	Storage tank	
b)	Termination cabinet	
c)	Floor void	
d)	Pipe trench	

EUIAS Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Electrical System and Process Control) Supporting Documents QAN; 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills

Page 15



# Question 15In accordance with HSE guidelines, isolations can only be applied by:Possible answersa)competent peopleb)training and authorised peoplec)skilled peopled)experienced people

Question 16		
Which manual handling statement is true?		
Possible answers		
a)	Correct manual handling prevents all accidents	
b)	Correct manual handling prevents damage to equipment	
c)	Correct manual handling reduces the risk of human injury	
d)	Correct manual handling should only be applied in the workplace	

[Turn to the next page for question 17]



Using the half split principle and referring to image below, at which position should a technician make the next check when fault finding?



Question 18		
What regulation provides guidance on the use of handheld tools?		
Possible answers		
a)	PUWER	
b)	COMAR	
c)	LOLER	
d)	СОЅНН	



What is being measured in this image?

Possible answers			
Possible answers			
a)	Temperature		
b)	Vibration		
c)	Pressure		
d)	Speed		

Question 20			
When seen on a British Standard Piping and Instrumentation drawing, what does			
this symbol represent?			
Possible	e answers		
a)	Electrical signal		
b)	Pneumatic signal	<del>- // // // //</del>	
c)	Hydraulic signal		
d)	Instrument signal		



Question 21		
Ohms law can be expressed as:		
Possible answers		
a)	V = I + R	
b)	V = I ÷ R	
c)	V = I × R	
d)	V = I - R	

Questio	Question 22		
What ty	pe of sensing device is used on this flow installation?		
Possibl	e answers		
a)	RF probe		
b)	Orifice plate		
c)	Venturi tube		
d)	Turbine meter		



What effect would a loose connection have on a 3 wire Resistance Temperature Device temperature loop?

#### Possible answers

a)	Fluctuating signal
b)	Low reading
c)	Static signal
d)	No effect



Question 24		
Which ONE of the following hazardous conditions would arise if a loose electrical connection existed on the terminal?		
Possible answers		
a)	Decrease in temperature	
b)	Increase in corrosion	
c)	Increase in temperature	
d)	Increase in noise	



On this differential pressure manifold, what is the purpose of the red handle valve?



Possible answers		
a)	Isolating pressure to transmitter	
b)	Isolating mains pressure	
c)	Venting pressure	
d)	Equalising pressure	

[Turn to the next page for question 26]



Assuming a signal range of 4-20 mA. A pressure transmitter with a range of 0-200 mbar is showing a feedback signal of 16mA.

Assuming that the transmitter is calibrated correctly what is the actual line pressure?

Possible answers		
a)	100 mbar	
b)	120 mbar	
c)	150 mbar	
d)	160 mbar	

Question 27		
What is the name given to the process of routinely inspecting electrical appliances?		
Possible answers		
a)	Resistance testing	
b)	PAT testing	
c)	Planned maintenance	
d)	Breakdown maintenance	

[Turn to the next page for question 28]



What does the third wire on a 3 wire Resistance Temperature Device do?

#### Possible answers

a)	Compensates field wire resistance
b)	It acts as a spare sensor wire
c)	It is the power supply wire
d)	Increases lifespan of device



#### **Question 29**

What is the normal output range of a pneumatic transmitter?

Possible	Possible answers		
a)	1 to 1.9 bar		
b)	0 to 15 bar		
c)	2 to 20 bar		
d)	0.2 to 1.0 bar		

Questio	n 30	
Followin	g maintenance on a distribution board, how should you re-instate the	
circuit?		
Possible answers		
a)	By leaving all outgoing circuits on	
b)	Leave all outgoing circuits off until asked to re-instate them	
c)	By switching all outgoing circuits back on at the same time	
d)	By switching all outgoing circuits back on one at a time	

#### End of Questions



# Practice Knowledge Assessment

# Electrical System and Process Control- Answer scheme

Question	Answer
1	С
2	A
3	В
4	С
5	С
6	С
7	В
8	A
9	С
10	С
11	A
12	D
13	С
14	В
15	В

Question	Answer
16	С
17	С
18	A
19	В
20	В
21	С
22	В
23	A
24	С
25	С
26	С
27	В
28	A
29	D
30	D
28 29 30	A D D



#### SAMPLE ANSWER SHEET



Candidate ID	Attempt
Last Name	
First Name	
Exam Date	Paper
Centre Name	
Centre Number	
MARKING INSTRUCTIONS	
Answers should be completed us	ing a HB pencil.
O O O ● ANSWER COMPL	ETED CORRECTLY
Examples of how NOT to mark your	examination sheet. These will not be recorded
O O O O DO NOT partially s	hade the answer circle.
💿 💿 🛞 DO NOT use ticks	or crosses.
🛛 🗇 🕤 🔘 DO NOT use circle	is.
O ● ● DO NOT shade ov	er more than one circle.
10000	21 0 0 0 0
20000	22 0 0 0 0
30000	23 0 0 0 0
40000	24 0 0 0 0
50000	25 0 0 0 0
60000	26 0 0 0 0
70000	27 0 0 0 0
80000	28 0 0 0 0
90000	29 0 0 0 0
10 0 0 0 0	30 0 0 0 0
11 0 0 0 0	
12 0 0 0 0	
13 0 0 0 0	
14 0 0 0 0	
15 0 0 0 0	
16 0 0 0 0	
17 0 0 0 0	
18 0 0 0 0	
19 0 0 0 0	
20 0 0 0 0	



# Appendix D - Practical Observation and Planning Form

The practical observation must be designed to meet the requirements of the Maintenance and Operations Engineering Technician standard.

- The apprentice will complete a practical observation during which they will be asked questions by the assessor to confirm their understanding of the rationale for actions taken and choices made during the practical observation
- The content of this practical observation will relate to the specific role they are working towards
- The duration of this activity will typically be no longer than one day and the actual time allowed will be based on the comparable time that an industry competent worker would take to achieve successful task(s) completion
- The employer/training provider must devise a practical observation task(s) sufficiently complex to allow the apprentice to demonstrate the required knowledge and skills

Note that the apprentice is only required to demonstrate the main specialist specific skill covered by the practical, and the observation task must be chosen carefully to ensure that the apprentice has opportunity to cover all aspects of the skill.

The activities will need to be able to provide the evidence identified in the checklist in the form below.

The EUIAS offer an optional service to review the employer/training provider's practical assessment design. To do this complete the 'Level 3 Practical Observation and Planning Form' and submit to the Service Delivery team, for review 1 month before the start of the end-point assessment.



#### Level 3 Practical Observation and Planning Form

Employer name and site address Training provider (if applicable)	
Standard	Maintenance and Operations Engineering
	Technician
Pathway	Electrical System and Process Control
Level	3
Location of practical	
Contact Details:	
Employer/training provider	
representative, email address and	
contact number overseeing the	
and site).	
EUIAS Date of review:	

Description of the proposed complex task(s):

Special requirements (for example: access arrangements/PPE):

Equipment/tools required:	Resources required:

EUIAS Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Electrical System and Process Control) Supporting Documents QAN; 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills Page 27



#### **Practical Observation Checklist**

This checklist will assist the employer and/or training provider with planning the activity. Please confirm all required elements are covered:

Core Skills	Covered on activity
<b>S1</b> Comply with industry health, safety and environmental working practices and regulations	
<b>S2</b> Communicate with and provide information to stakeholders in line with personal role and responsibilities	
<b>S3</b> Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities	
<b>S4</b> Assess and test the performance and condition of plant and equipment	
<b>S5</b> Locate, and rectify faults on plant and equipment	
<b>S6</b> Read, understand and interpret information and work in compliance with technical specifications and supporting documentation	
<b>S7</b> Inspect and maintain appropriate plant and equipment to meet operational requirements	
<b>S8</b> Communicate, handover and confirm that the appropriate engineering process has been completed to specification	
Core Behaviours	Covered on activity
<b>B1 Health and Safety</b> - Follows health and safety policies and procedures and be prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with appropriate supervision	
<b>B2 Quality focused -</b> Ensures that work achieves quality standard both occupationally and personally	
<b>B3 Working with others -</b> Has the ability to work well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and on time	
<b>B4 Interpersonal skills</b> - Gets along well with others and takes into account their needs and concerns	



<b>B6 Sustainability and ethical behaviour</b> - Behaves ethically and undertakes work in a way that contributes to sustainable development	
<b>B7 Risk awareness -</b> Demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information	
PLUS <b>select the MAIN</b> Specialist Skill covered by the practical	Covered on activity
Pathway: Electrical System and Process Control Specialis	t Skills
<b>EP1</b> Position, assemble, install and dismantle integrated electrical apparatus, systems and process control equipment	
<b>EP2</b> Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment	
<b>EP3</b> Replace, repair and/or remove components within integrated plant and equipment and ensure its return to operational condition	
<b>EP4</b> Diagnose determine the cause of faults within integrated plant and equipment	
<b>EP5</b> Calibrate and configure integrated electrical apparatus, systems and process control equipment	
Estimated total duration of practical (must be a minimum of 4 hours)	

#### Remember:

- The specific detail of the tasks to be undertaken should be **kept confidential from the apprentices**
- You will require differing tasks where you have more than one apprentice to be assessed

#### Practical Task: Include relevant photographs to illustrate task(s)



#### EUIAS Office use only

Date received

Date signed off



# Appendix E: Practice Practical Observation Template

This document is for use by the person from the employer/training provider playing the role of the assessor during the practice practical observation. It is designed to help replicate the live assessment experience and to enable feedback to be provided to the apprentice.

Full Name of Apprentice	
Location(s) of Practice Practical Observation	
Full Name of Assessor	
Date of Practice Practical Observation	
Start Time	
End Time	
Assessor - Additional comments:	

	Orac
Diagon indicate the appropriation's practice practical cheery ation	
Flease indicate the apprentice's practice practical observation	
grade (F/P/M/D):	

#### **Please Note:**

Pass: Each criteria must be met to achieve a pass.

Merit or Distinction: All Pass criteria must be achieved PLUS a minimum number of merit and distinction as described in Section 3 in this specification.

Fail: The apprentice does not demonstrate the pass criteria.



S1 Comply with industry health, safety and environmental working practices and regulations						
Pass Criteria – All to be met	Merit Criteria – Minimum two to	Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to		
		met		be met		
<ul> <li>Demonstrate a clear understanding of their own health, safety and environmental responsibilities</li> </ul>		<ul> <li>Demonstrate a deeper understanding of the health, safety and environmental implications</li> </ul>		<ul> <li>Demonstrate exemplary health, safety and environmental knowledge and performance</li> </ul>		
<ul> <li>and that of others</li> <li>Comply with the required health, safety and</li> </ul>		of the work e.g. potential effect of failure to comply, environmental, social, financial, company impact		<ul> <li>throughout the activity</li> <li>Identify health, safety and environmental deficiencies and implement</li> </ul>		
<ul> <li>environmental working practices and regulations</li> <li>Conduct a suitable risk assessment and proactively</li> </ul>		<ul> <li>Take a lead role in managing the site safety of self and others</li> </ul>		<ul> <li>appropriate solutions</li> <li>Challenge unsafe behaviour/ practices using appropriate techniques</li> </ul>		
<ul> <li>identify workplace hazards</li> <li>Inspect and wear the correct personal protective equipment (PPE) required to</li> </ul>		<ul> <li>Consistently demonstrate compliance with safety requirements and make suggestions to reduce risks</li> </ul>		<ul> <li>Pre-empt risks prior to task commencement and puts actions in place to prevent them occurring</li> </ul>		
<ul> <li>carry out the activity</li> <li>Inform other relevant parties of matters affecting them where required</li> </ul>		<ul> <li>Identify poor/bad practice in relation to work activities and address the situation</li> </ul>		<ul> <li>Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to improve safety standards</li> </ul>		

EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills

ENERGY & UTILITY SKILLS

Page 32



C	Questions	ons	by the apprentice including exa	mples.			
Assessor must ask the following		g	Assessor must record all additi asked for clarification and the re	onal questions esponses provided	Recording timeline.	Mar awa	k arded.
•	equipment Regularly re-assess the site conditions and take action when necessary to maintain site safety Check to ensure the site is left in a safe/secure condition for others						
•	Comply with and apply safe systems of work and maintain a safe working environment Inspect and use the appropriate tools and						





S2 Communicate with and provide in	form	nati	ion to stakeholders in line with pers	sonal	role and responsibilities	
Pass Criteria – All to be met		N	Nerit Criteria – Minimum two to b	t Criteria – Minimum two to be Distinction Criteria – Minimum t		
<ul> <li>Read and correctly interpret a range of technical information provided to plan and conduct the work</li> </ul>		•	Demonstrate a detailed knowledge of the range and purpose of the technical information available		Demonstrate their ability to     effectively communicate     technical information across a     wide range of stakeholders e.g.	
<ul> <li>Demonstrate a clear understanding of the purpose and use of the technical information provided for the work</li> <li>Use and refer to the technical information provided to check/confirm the work conducted meets the</li> </ul>		•	Identify inaccuracies/deficiencies in the technical information provided and resolve/report the situation Challenge in a professional manner any areas of concern to clarify understanding		<ul> <li>colleagues, management, briefings/meetings, external clients</li> <li>Consult and involve team members and/or other relevant persons to achieve greater understanding and improved performance</li> </ul>	
<ul> <li>required company standards/specifications</li> <li>Where necessary, question/clarify any information which is not clearly understood</li> <li>Complete any technical or supporting documentation in</li> </ul>		•	Identify/suggest methods of improving the system/use of information		<ul> <li>Demonstrate the ability to build positive relationships and actively address conflict with positive outcomes</li> </ul>	





line with company policies/procedures						
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded		
Questions						
Develop some open ended questions						

S: ac	<b>S3</b> Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities						
Pa	Pass Criteria – All to be met Merit Criteria – Minimum two to be Distinction Criteria – Minimum two to be					be	
			m	net		met	
•	Demonstrate an		•	Take a lead role in the		Demonstrate a deeper	
	understanding of the			preparation of the work area		understanding of the implications of	
	importance of good			proactively informing others on		good and poor work preparation.	
	preparation and the potential			matters which affect them		e.g. In terms of cost, time, value,	
	outcomes of poor preparation		•	Produce a detailed work plan to		company reputation etc	
•	Inspect and prepare the work			support the organisation of the		Demonstrate the ability to take a	
	area and equipment to be			work, including measures to		lead in accepting additional	
	worked on in line with			deal with contingencies		responsibility and autonomy to	
	company policies/procedures		•	Demonstrate their ability to		achieve/improve the work being	
				develop positive professional		undertaken	
Ŷ	ENERGY & EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician Page 38 (Electrical System and Process Control) EPA Supporting Documents						ge 35



	<ul> <li>Identify and implement any</li> </ul>		relationships with individuals to					
	special precautions required		support the work activity					
	by the work activity or		Make valid suggestions/					
	environment, where required		recommendations to improve					
	Maintain good housekeeping		the planning/preparation of the					
	practices and a safe working		work activity					
	environment throughout the							
	activity							
	Store tools, equipment,							
	materials in a suitable/secure							
	position and dispose of waste							
	products in line with company							
	policies and Health Safety							
	and Environmental							
	regulations							
	Reinstate the work area to							
	ensure it is left in a safe and							
	secure condition e.g. locks,							
	notices, documentation							
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded.			




uestions
Develop some open ended questions

S4 Assess and test the performance and condition of plant and equipment							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
		met		be met			
Demonstrate a clear		Demonstrate a detailed technical		Demonstrate a deeper technical			
understanding of the company		knowledge of the range of tests		understanding of testing			
polices/procedures for the		available and their specific purpose		procedures and the analysis of			
assessment and testing of plant		Take a pro-active, leading role in the		results. e.g. testing parameters,			
and equipment to be worked on		testing activity providing clear		performance indicators etc.			
Demonstrate a clear		guidance on the results obtained		• Demonstrate the ability to take a			
understanding of the types and		Make recommendations/		lead in accepting additional			
purpose of testing procedures for		suggestions to improve testing		responsibility and autonomy to			
the plant and equipment to be		efficiencies		achieve/improve the work being			
worked on		Demonstrate a detailed technical		undertaken			
Assess and test the plant/		knowledge of the outcome of testing					
equipment to be worked on in line		procedures and the implications of					
with company procedures		results obtained					
Use the correct tools, equipment							
and techniques to conduct testing							
in line with company procedures							
		ad point Assessment for Maintenance and Oper	otion	Engineering Technician			





Develop some open ended question	าร					
Questions						
Assessor must ask the following standardised questions.		Assessor must record all additional ques clarification and the responses provided apprentice including examples.	stions asked for by the	Recording timeline.	Mark awar	ded.
testing in line with company procedures						
the tests conducted						
Accurately interpret the results of						





S5 Locate, and rectify faults on plant and equipment							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
		met		be met			
<ul> <li>Demonstrate a clear understanding of their role and responsibilities for the fault location and rectification activity to be undertaken</li> <li>Provide an accurate technical explanation of the company's fault location methods, processes and/or procedures</li> <li>Competently use the correct</li> </ul>		Demonstrate a detailed understanding of the theory and principles of fault location and rectification operations Demonstrate a detailed understanding of cause and effect of faults and preventative measures Pro-actively works with others to identify areas for improvement and follows through on agreed		Demonstrate deeper technical knowledge of fault location and fault prevention e.g. costs, lost time, sustainability of equipment, company reputation Identify and implement tangible changes that improve the efficiency of the work being conducted Identify and take action to report or deal with issues of			
<ul> <li>competently use the correct tools, equipment and methods to locate the rectify the fault/s in a timely manner</li> <li>Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures</li> <li>Complete the required</li> </ul>		Make recommendations/ suggestions to improve the location/rectification work activity		Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken			
tests/checks to confirm the							





fault rectification has been successful					
Record the results/outcomes     of rectification work in line     with company requirements					
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark award	ded.
Questions					
Develop some open ended question	าร				

**S6** Read, understand and interpret information and work in compliance with technical specifications and supporting documentation

Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met
<ul> <li>Read and correctly interpret         <ul> <li>a range of technical</li> <li>information provided to plan</li> <li>and conduct the work</li> </ul> </li> </ul>	<ul> <li>Demonstrate a detailed knowledge of the range and purpose of the technical information available</li> </ul>	
<ul> <li>Demonstrate a clear understanding of the purpose and use of the</li> </ul>	<ul> <li>Identify inaccuracies/deficiencies in the technical information provided and resolve/report the situation</li> </ul>	



technical information		Challenge in a professional     manner any areas of concern				
<ul> <li>Use and refer to the technical information provided to check/confirm the work conducted meets the required company standards/specifications</li> </ul>		<ul> <li>manner any areas of concern to clarify understanding</li> <li>Identify/suggest methods of improving the system/use of information</li> </ul>				
<ul> <li>Where necessary, question/clarify any information which is not clearly understood</li> </ul>						
<ul> <li>Complete any technical or supporting documentation in line with company policies/procedures</li> </ul>						
Assessor must ask the following standardised questions.		Assessor must record all additional clarification and the responses pro apprentice including examples.	al que ovide	estions asked for d by the	Recording timeline.	Mark awarded.
Questions						
Develop some open ended question	IS					





S7 Inspect and maintain appropriate plant and equipment to meet operational requirements							
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met					
<ul> <li>Demonstrate a clear understanding of the company polices/procedures for the inspection of plant and equipment to be worked on</li> <li>Demonstrate a clear understanding of the company polices/procedures in relation to achieving the safe isolation of equipment from relevant sources of energy</li> <li>Identify and inspect the plant/equipment to be worked on in line with company procedures</li> <li>Correctly use tools, equipment and techniques to achieve the quality</li> </ul>	<ul> <li>Demonstrate a detailed technical knowledge of the range of required inspections and maintenance procedures and their specific purpose</li> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed implementation</li> <li>Demonstrate the ability to develop positive professional relationships with individuals to support the work activity</li> <li>Identify areas for work improvement and implementation actions to improve work efficiencies</li> </ul>	<ul> <li>Demonstrate a deeper technical understanding of inspection/maintenance operations. e.g. In terms of cost, time, environmental impact, sustainability etc</li> <li>Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken</li> </ul>					
standards required by							





company policies/procedures					
<ul> <li>Demonstrate consistent application of policies and procedures during the work activity</li> </ul>					
<ul> <li>Record/report the results of the inspection in line with company procedures</li> </ul>					
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark aware	ded.
Questions Develop some open ended questio	ns				





S8 Communicate, handover and confirm that the appropriate engineering process has been completed to specification							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		Distinction Criteria – Minimum two to be met			
<ul> <li>Demonstrate a clear understanding of their role and responsibilities in returning the system/equipment back to</li> </ul>		<ul> <li>Demonstrate a detailed understanding of the factors which can support and influence a smooth handover of equipment</li> </ul>		<ul> <li>Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the handover process</li> </ul>			
<ul> <li>operational service</li> <li>Provide an accurate technical explanation of the company's handover procedure</li> </ul>		• Take a pro-active lead in effectively communicating the detail of handover arrangements with stakeholders		<ul> <li>Consult and involve team members and/or other relevant persons to achieve greater understanding and improved performance</li> </ul>			
<ul> <li>Complete the required checks/tests to confirm the equipment meets the company operational requirements for handover</li> </ul>		<ul> <li>Demonstrate their ability to develop positive professional relationships with individuals to support handover process</li> <li>Confidently lead the handover</li> </ul>		<ul> <li>Demonstrate the ability to build positive relationships and actively address conflict/resolve problems with positive outcomes</li> </ul>			
<ul> <li>Conduct the handover in compliance with all relevant policies and procedures</li> <li>Clearly communicate the datails of the handover.</li> </ul>		process taking charge of the operation and resolving any issues within their role responsibility		<ul> <li>Demonstrate their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management</li> </ul>			



ENERGY & UTILITY SKILLS



including any additional requirements to the relevant parties		Adapts the method and style of communications to changing circumstances and need	briefings/mee clients	tings, external	
<ul> <li>Complete all relevant reporting/recording documentation in line with company procedures</li> <li>Leave the work area in a safe/secure condition for others</li> </ul>					
Assessor must ask the following standardised questions.		Assessor must record all additional que for clarification and the responses pro apprentice including examples.	uestions asked ovided by the	Recording timeline.	Mark awarded
<b>Questions</b> Develop some open ended question	ns				





B1 Health and Safety						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two te		m two to	
		met	be met			
<ul> <li>Follows health and safety policies and procedures and be prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with appropriate supervision</li> </ul>						
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded.	
Questions						
Develop some open ended question	IS					





B2 Quality focused					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		m two to
<ul> <li>Ensures that work achieves quality standard both occupationally and personally</li> </ul>					
Assessor must ask the following standardised questions.		Assessor must record all additional qu for clarification and the responses pro- apprentice including examples.	estions asked vided by the	Recording timeline.	Mark awarded.
<b>Questions</b> Develop some open ended question	ns				

B	Working with others			
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to	
			met	be met
•	Has the ability to work well			
	with people from different			
	disciplines, backgrounds			
	and expertise to accomplish			





an activity safely and on time		
Assessor must ask the following standardised questions.	Assessor must record all additional questions as for clarification and the responses provided by the apprentice including examples.	ked Recording Mark ne timeline. awarded
Questions		
Develop some open ended question	5	

34 Interpersonal skills						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two t be met		ım two to	
Gets along well with others and takes into account their needs and concerns						
Assessor must ask the following standardised questions.		Assessor must record all additional questions a and the responses provided by the apprentice in	sked for clarification ncluding examples.	Recording timeline.	Mark awarded.	
Questions						
Develop some open ended questions						





B6 Sustainability and ethical behaviour					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to		m two to
	-	met	be met		
<ul> <li>Behaves ethically and undertakes work in a way that contributes to sustainable development</li> </ul>					
Assessor must ask the following standardised questions.		Assessor must record all additional qu for clarification and the responses pro- apprentice including examples.	estions asked vided by the	Recording timeline.	Mark awarded.
Questions Develop some open ended questio	ns				

B7 Risk awareness						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met			
<ul> <li>Demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular</li> </ul>						





monitoring and checking of information			
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Questions			
Develop some open ended question			

## Pathway: Electrical System and Process Control Role Specialist Skills

EP1 Position, assemble, install and dismantle integrated electrical apparatus, systems and process control equipment						
Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to				
<ul> <li>Demonstrate a clear understanding of their role and responsibilities in relation to the work to be conducted</li> <li>Provide an accurate technical explanation for the purpose of the work activity</li> <li>Demonstrate a clear plan for the work to be undertaken and an understanding of any</li> </ul>	<ul> <li>Demonstrate a detailed technical knowledge of the methods and processes used to conduct the work</li> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed implementation</li> <li>Make recommendations</li> </ul>	<ul> <li>Demonstrate deeper technical/commercial         knowledge of the equipment/operation e.g. installation costs, technical requirements planning, sustainability of equipment etc     </li> <li>Identify and implement tangible changes that improve the efficiency of the work being conducted</li> </ul>				
EUIAS Level 3 End UTILITY SKILLS (Electrical System	a-point Assessment for Maintenance and Operatio and Process Control) EPA Supporting Documents	n Engineering Technician Page 5				

EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



safety/technical information Identify and take action to /suggestions to improve work ٠ given efficiencies report or deal with issues of  $\square$ nonconformity/compliance Use tools and equipment to Produce a detailed work plan  $\square$ ٠ competently achieve the to support the work delivery Demonstrate the ability to take quality standards required including measures to deal a lead in accepting additional by the company in a timely with contingencies responsibility and autonomy to achieve/improve the work manner being undertaken Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures Deal effectively with any issues within their role responsibilities, where necessary Complete the required ٠ checks and tests to confirm the work meets the accuracy, finish and quality standards required Assessor must ask the following Assessor must record all additional questions asked Recording Mark for clarification and the responses provided by the timeline. standardised questions. awarded. apprentice including examples.





Questions
Develop some open ended questions







EP2 Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment							
Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to					
<ul> <li>Demonstrate a clear understanding of their role and responsibilities in relation to the work to be conducted</li> <li>Provide an accurate technical explanation for the purpose of the maintenance work</li> </ul>	<ul> <li>Demonstrate a detailed understanding of the process and principles of preventative maintenance</li> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed implementation</li> </ul>	<ul> <li>Demonstrate deeper technical/commercial knowledge of the maintenance operation being undertaken e.g. installation costs, technical requirements, planning, corrective/preventative</li> <li>Identify and implement</li> </ul>					
<ul> <li>Demonstrate a clear plan for the work to be undertaken and an understanding of any safety/ technical information given</li> <li>Use tools and equipment to competently achieve the quality standards required by the company in a timely manner</li> </ul>	<ul> <li>Make recommendations/ suggestions to improve work efficiencies</li> <li>Produce a detailed work plan to support the maintenance operation including measures to deal with contingencies</li> </ul>	<ul> <li>tangible changes that improve the efficiency of the work being conducted</li> <li>Identify and take action to report or deal with issues of nonconformity/compliance</li> <li>Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken</li> </ul>					





•	Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures							
•	Deal effectively with any issues within their role responsibilities, where necessary							
•	Complete the required checks and tests to confirm the work meets the accuracy, finish and quality standards required							
As sta	sessor must ask the following andardised questions.		Assessor must record all additiona for clarification and the responses apprentice including examples.	ıl qu pro	lestions asked vided by the	Recording timeline.	Mark awar	ded.
Qı	uestions							
De	evelop some open ended question	ns						





Ρ	ass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two t	to
•	Demonstrate a clear understanding of their role and responsibilities in relation to the work to be conducted Provide an accurate technical explanation for the purpose of the maintenance	<ul> <li>met</li> <li>Demonstrate a detailed understanding of the causes and principles of component degradation</li> <li>Demonstrate a detailed understanding of the limits/restrictions of component replacement or</li> </ul>	<ul> <li>be met</li> <li>Demonstrate deeper technical/ commercial knowledge of the repair/replacement work being undertaken e.g. costs, effect on maintenance periods, equipment sustainability</li> <li>Identify and implement tangible changes that improve the</li> </ul>	
•	work Demonstrate a clear plan for the work to be undertaken and an understanding of any safety/technical information given	<ul> <li>repair e.g. In terms of reliability, certification of instruments/systems etc.</li> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed</li> </ul>	<ul> <li>efficiency of the work being conducted</li> <li>Identify and take action to report or deal with issues of nonconformance/compliance</li> <li>Demonstrate the ability to take a lead in accepting additional</li> </ul>	
•	Use tools and equipment to competently carry out the removal/replacement of components in a logical sequence and timely manner	<ul> <li>implementation</li> <li>Make recommendations/suggestions to improve work efficiencies</li> <li>Produce a detailed work plan to support the maintenance</li> </ul>	responsibility and autonomy to achieve/improve the work being undertaken	





Conduct the work in compliance with all relevant regulatory requirements and company procedures		operation including measures to deal with contingencies		
<ul> <li>Deal effectively with any issues within their role responsibilities, where necessary</li> </ul>				
• Complete the required checks and tests to confirm the work meets the accuracy, finish and quality standards required				
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
<b>Questions</b> Develop some open ended question	ns			





EP4 Diagnose and determine the cause of faults within integrated plant and equipment							
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met					
<ul> <li>Demonstrate a clear understanding of their role and responsibilities in relation to the fault diagnosis to be conducted</li> <li>Provide an accurate technical explanation for the purpose and process of the fault's activity</li> <li>Demonstrate a clear plan for the diagnosis to be undertaken and an understanding of any safety/technical information</li> </ul>	<ul> <li>met</li> <li>Demonstrate a detailed understanding of the theory/principles of relevant diagnostic techniques</li> <li>Able to identify the root cause of the fault and preventative measures</li> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed implementation</li> <li>Make recommendations/ suggestions to improve work</li> </ul>	<ul> <li>be met</li> <li>Demonstrate deeper technical/commercial knowledge of the effect of fault diagnosis and repair e.g. fault analysis, costs, prevention, lost time</li> <li>Identify and implement tangible changes that improve the efficiency of the work</li> <li>being conducted</li> <li>Identify and take action to report or deal with issues of nonconformity/compliance</li> <li>Demonstrate the ability to take</li> </ul>					
<ul> <li>given</li> <li>Competently use the correct tools, equipment, technical data and diagnostic techniques to identify, locate</li> </ul>	<ul> <li>efficiencies</li> <li>Produce a detailed work plan to support the maintenance operation including measures to deal with contingencies</li> </ul>	a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken					



ENERGY & UTILITY SKILLS



Recording

timeline.

Mark

awarded.

and diagnose fault/s in a timely manner

- Correctly analyse and interpret the results of the fault-finding techniques conducted
- Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures
- Complete the required checks and tests to confirm the work meets the accuracy, finish and quality standards required

Assessor must ask the following standardised questions.

**Questions** Develop some open ended questions

ENERGY & UTILITY SKILLS

Assessor must record all additional questions asked

for clarification and the responses provided by the

apprentice including examples.



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	e Distinction Criteria – Minimum two to be met
<ul> <li>Demonstrate a clear understanding of their role and responsibilities for the calibration/configuration activity to be undertaken</li> </ul>	<ul> <li>Demonstrate a detailed understanding of the theory/principles of system/equipment calibration</li> <li>Demonstrate a detailed</li> </ul>	Demonstrate deeper technical knowledge of equipment calibration and configuration e.g. system / equipment parameters, tolerances,
<ul> <li>Provide an accurate technical explanation for the purpose and process of the calibration work</li> </ul>	<ul> <li>understanding of methods to</li> <li>prevent unplanned shutdown</li> <li>of interacting equipment when</li> <li>conducting calibration</li> </ul>	<ul> <li>Identify and implement tangible changes that improve the efficiency of the work</li> </ul>
<ul> <li>Demonstrate a clear plan which takes into consideration the effects of calibration on the operation of interacting systems</li> </ul>	<ul> <li>Pro-actively works with others to identify areas for improvement and follows through on agreed implementation</li> </ul>	<ul> <li>being conducted</li> <li>Identify and take action to report or deal with issues of nonconformity/compliance</li> <li>Demonstrate the ability to take</li> </ul>
• Competently use the correct tools, equipment and technical data technical data to calibrate and configure instruments and/or systems in a timely manner	<ul> <li>Make recommendations/ suggestions to improve work efficiencies</li> <li>Produce a detailed work plan to support the maintenance operation including measures</li> </ul>	<ul> <li>a lead in accepting added responsibility and autonomy to achieve/improve the work</li> <li>being undertaken</li> </ul>
<ul> <li>Conduct the required tests/checks to confirm the</li> </ul>	to deal with contingencies	



consistency and accuracy of calibrated instruments/systems					
<ul> <li>Record the results/outcomes of calibration work in line with company requirements</li> </ul>					
Assessor must ask the following standardised questions.					
Assessor must ask the following standardised questions.		Assessor must record all additional que for clarification and the responses prov apprentice including examples.	estions asked vided by the	Recording timeline.	Mark awarded.





## Appendix F: Practice Technical Interview Template

This document is for use by the employer/provider person playing the role of the assessor during a practice technical interview. It is designed to help replicate the live assessment experience and to enable feedback to be provided to the apprentice. The practice technical interview must be conducted under examination conditions and recorded. The apprentice must be asked questions.

There are a maximum of **100 marks** for the interview.

To achieve a Pass for the technical interview, a Pass is required in ALL relevant elements, including all skills from the specialist pathway.

To achieve a Merit or Distinction for the technical interview, all Pass criteria must be achieved PLUS a minimum number of merit and distinction marks as described in Section 3 in the Specification 'Grading and Grading Criteria – Component 3: Technical Interview.'

Apprentice Full Name:			
Employer and location:			
Assessor Full Name:			
Date of Interview:	Start time:	Finish time:	



K1 First principles relating to the operation and maintenance of appropriate plant and equipment							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
<ul> <li>A working knowledge of the principles of operation for the range of plant/equipment they are responsible for</li> <li>The primary purpose of the range of plant/equipment</li> </ul>		<ul> <li>A detailed understanding by explaining additional technical detail of the operating principles of the plant/equipment they are responsible for e.g. operating limits, tolerances, restrictions,</li> </ul>		<ul> <li>An excellent knowledge and thorough understanding of the relevant engineering principles relative to the operation and maintenance of plant and equipment encountered in their</li> </ul>			
<ul> <li>worked on e.g. what the plant / equipment worked on does</li> <li>How the plant/equipment interacts within the overall system</li> <li>The typical characteristics of healthy and unhealthy operation for the range of plant/equipment worked on and how to identify the difference</li> <li>How they have used their knowledge of plant and equipment operating/maintenance</li> </ul>		<ul> <li>effects on system</li> <li>A detailed understanding by explaining additional technical detail of the function / interaction of the plant/equipment within the overall system e.g. synchronisation, effects on system</li> <li>How they have used their knowledge of plant and equipment operating/maintenance principles to improve or enhance operational activities</li> </ul>		<ul> <li>job role</li> <li>Evidence of conducting supporting technical analysis to gain a greater understanding of (a or b) a) the operating principles of plant/equipment worked on b) the function/effect of the plant/ equipment within the overall system</li> <li>Conducting technical research into the effects of new technologies on current/future maintenance requirements/methodologies</li> </ul>			





principles to support their work decisions/activities				
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark award	ded.
Questions				
Develop some open ended questions				

Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met
<ul> <li>A working knowledge of the relevant health, safety and environmental regulations and standards and how they impact the overall operation</li> <li>A clear understanding of their responsibilities and those of</li> </ul>	<ul> <li>A detailed understanding of the relevant health, safety and environmental regulations and standards by explaining additional technical detail e.g. how they influence how the work is planned and/or conducted</li> </ul>	<ul> <li>Excellent and thorough health, safety and environmental knowledge and understanding in relation to the wider impact of relevant industry working practices and regulations for their work activities</li> </ul>
others under the relevant company policies and procedures which apply to the range of work undertaken and describe why they are required	<ul> <li>Conducting reviews of work health, safety and environmental arrangements and their applicability and adapting them for changing circumstances whilst still maintaining safety</li> </ul>	<ul> <li>How they have taken a leading role in identifying health, safety and environmental deficiencies and then implementing the appropriate solution/s in line with</li> </ul>

EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



<ul> <li>A knowledge of the company process/s and/or procedures for achieving and maintaining safety when working on systems within their work role and how they impact the work e.g. safe systems of work, documentation</li> <li>A clear understanding of the purpose of conducting risk assessments and the factors which affect the critical reasoning when making risk assessment decisions</li> <li>A knowledge of the Company procedure/s for reporting safety concerns and emergencies</li> </ul>		<ul> <li>How they have readily accepted additional health, safety and environmental responsibility/autonomy to maintain/improve work safety standards</li> </ul>		•	Company polic How they have behaviour/prac appropriate teo	cies/procedure challenged u ctices using chniques	es insafe	
Assessor must ask the following standardised questions.		Assessor must record all additional clarification and the response provi apprentice including examples.	que ded	estio by	ons asked for the	Recording timeline.	Mark awaro	ded.
<b>Questions</b> Develop some open ended question	ns							





K3 Maintenance and operational practices, processes and procedures covering a range of plant and equipment								
Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria - Minimum two to be						
	met	met						
<ul> <li>A working knowledge of the maintenance requirements for the range of plant/ equipment worked on within their job role</li> <li>A working knowledge of the company's operational processes and procedures and how these have affected/influenced their maintenance work</li> <li>Their planning process for conducting maintenance operations and the factors which have influenced their critical reasoning/decision making when planning their work</li> <li>A working knowledge of the range and type of test procedures which they have</li> </ul>	<ul> <li>A detailed knowledge of the company maintenance practices by explaining additional technical detail for maintenance procedures on plant/equipment</li> <li>A detailed knowledge of the company operational processes and procedures which affect maintenance operations by explaining additional operational detail</li> <li>A detailed knowledge of the range of testing procedures and the implications of the results obtained</li> </ul>	<ul> <li>An excellent and thorough knowledge and understanding of relevant maintenance and operational practices/procedures for their job role</li> <li>An ability to analyse and provide valid justification for the company's maintenance procedures and/or operational practices for maintenance work on plant and equipment</li> <li>A detailed technical/commercial understanding of the effects of conducting maintenance procedures on</li> <li>Company plant/equipment e.g. cost, reliability, availability, sustainability</li> </ul>						
used to confirm their work has met with company operational requirements and standards								
ENERGY & EUIAS Level 3 E UTILITY SKILLS (Electrical System QAN: 603/7266/7	nd-point Assessment for Maintenance and Oper n and Process Control) EPA Supporting Docume 7 – ST0154/AP02 v3.0 © 2023 Energy & Utility S	ation Engineering Technician Page 65 ents Skills						



A knowledge of how their maintenance activities have impacted plant/equipment/others						
Assessor must ask the following standardised questions.	Assessor must record all additio for clarification and the response apprentice including examples.	nal q e pro	uestions asked vided by the	Recording timeline.	Mark awar	ded.
Questions						
Develop some open ended questions						

K4 The relevant engineering theories and principles relative to their occupation						
Pass Criteria – All to be met			Μ	lerit Criteria – Minimum two to k	)e	Distinction Criteria – Minimum two to
			m	net		be met
•	A working knowledge of the range of relevant operational theories and principles which underpin their work		•	A detailed knowledge of the relevant operational theories and principles which have supported and/or influenced		<ul> <li>An excellent and thorough knowledge and understanding of the relevant operational theories and principles relative to plant</li> </ul>
•	A working knowledge of the basic effect/influence of the relevant operational theories and principles which directly underpin their work activities		•	their work activities How they have used relevant operational theories and principles to support / influence their work decisions/activities		<ul> <li>and equipment in their job role</li> <li>How they have used their understanding of relevant operational theories and principles to make suggestions</li> </ul>
•	The benefits of being able to identify and apply the differing		•	Their inclusion of operational formulae/theories/principles to		which have influenced or led to an improved performance
EVIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician Pa UTILITY SKILLS (Electrical System and Process Control) EPA Supporting Documents						



<ul> <li>operational theories and principles in relation to their job role e.g. maintenance inspections, fault finding</li> <li>A working knowledge of how to apply the relevant operational formulae which can be used to support their work activities</li> </ul>		support their technical explanations in relation to their work activities		<ul> <li>How they have technical resea on relevant op and principles effects of curre technologies</li> </ul>	e conducted fu arch which is erational theo to support the ent or future	urther based ries	
Assessor must ask the following standardised questions.		Assessor must record all addition for clarification and the response apprentice including examples.	nal q e prov	uestions asked vided by the	Recording timeline.	Mari awa	ر rded.
Questions Develop some open ended question	s						





S5 Locate, and rectify faults on plant and equipment								
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met						
<ul> <li>A working knowledge of the company policies and procedures for the location of faults on plant and equipment worked on</li> <li>A clear understanding of the company policies and procedures in relation to achieving the safe isolation of equipment from relevant sources of energy and maintaining safety from the system</li> </ul>	<ul> <li>A detailed knowledge of the company processes and procedures by explaining additional technical detail for the fault location methods/procedures conducted on plant/ equipment/systems</li> <li>A detailed understanding of the tools and equipment that can be used to identify and locate faults on plant/equipment/systems</li> <li>Their ability to take a lead in fault finding/rectification activities and</li> </ul>	<ul> <li>An excellent knowledge/understanding in relation to fault location/rectification procedures within their job role</li> <li>How they have used a range of methods to locate, and rectify faults on plant and equipment, with a detailed explanation/justification of their chosen methods</li> <li>How they have used their knowledge of fault</li> </ul>						
<ul> <li>How they have used tools/ equipment/techniques to inspect and identify faults on plant/equipment and develop sound solutions while recognising and defining problems</li> <li>How they have used tools/equipment/techniques to repair faults and confirm</li> </ul>	accept additional responsibility/autonomy for the fault work undertaken	location/rectification to improve/influence work outcomes						





the rectification to the quality standards required by company policies/procedures				
How they have recorded / reported the results of fault- finding activities in line with Company procedures				
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.
<b>Questions</b> Develop some open ended question	ons			

Se do	<b>S6</b> Read, understand and interpret information and work in compliance with technical specifications and supporting documentation							
Pa	iss Criteria – All to be met		Merit Criteria – Minimum two to be			Distinction Criteria – Minimum two to		
				et	be met			
•	A working knowledge of the range of information which can be gained from company policies and procedures which affect their work		•	How they have taken a lead in interpreting/relaying technical information to progress work or support others understanding				





•	A working knowledge of the range and type of technical information/specifications available and how they are used to support work activities How they have used company work information and technical	•	How they have questioned/clarified information which was unclear or incorrect How they have reported/updated information which was not technically correct/accurate	
	specifications to conduct/support their work activities Describe how they have used			
	Company information to record/report the results of work carried out in line with company procedures			

S7 Inspect and maintain appropriate plant and equipment to meet operational requirements									
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met							
How they have planned inspection and maintenance operations and the factors which influenced their critical	• Their ability to explain in detail the range of skills, knowledge and behaviours they have used to support their conducted	An excellent     knowledge/understanding in     relation to     inspection/maintenance     procedures within their job role							





reasoning/decisions during their planning process

- How they have implemented/complied with company operational processes and procedures during their conducted inspection and maintenance work
- How they have used tools/techniques/equipment to conduct maintenance inspection and maintenance procedures on a range of plant/equipment to meet company standards
- How they have used test equipment/procedures on plant/equipment to confirm that the work completed met with Company operational requirements
- How they have reported/recorded the outcome of their inspection and maintenance operations

inspection/maintenance operations How they have pro-actively

 $\square$ 

- How they have pro-actively worked with others to resolve problems during inspection/maintenance operations which supported work progression/performance
- How they have taken action to report or deal with issues of nonconformity or noncompliance during inspection/maintenance work operations

Their ability to explain/justify the Company inspection and maintenance procedures used for a range of plant and equipment

 $\square$ 

 How they have taken a lead in accepting additional responsibility/autonomy to improve the outcome of inspection/maintenance operations

ENERGY & UTILITY SKILLS

EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Questions			
Develop some open ended questions			

S	S8 Communicate, handover and confirm that the appropriate engineering process has been completed to specification								
Ρ	ass Criteria – All to be met		Merit Criteria – Minimum two to b met	e	Distinction Criteria – Minimum two to be met				
•	A working knowledge of their role and responsibilities in the handover of the system/equipment/plant back to operational service		<ul> <li>How they have taken a pro- active lead in the handover process by effectively communicating the detail of handover arrangements with</li> </ul>		How they have consulted/involved team members/other relevant persons to achieve greater understanding and improved performance				
•	A working knowledge of the Company process for the handover of plant/equipment which has been worked on		<ul> <li>stakeholders</li> <li>Their ability to develop positive professional relationships with individuals to support the</li> </ul>		• Their ability to actively address conflict/ resolve problems with positive outcomes to build positive relationships and				
•	How they have completed the required checks/tests to confirm the plant/equipment/system worked on meets operational requirements before		<ul> <li>handover process and resolve any issues within their role responsibility</li> <li>How they have adapted their communication method/style to better suit the changing</li> </ul>		• Their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients				




	conducting the handover		circumstances/needs of the					
	process		work					
	<ul> <li>How they have completed the handover of plant/equipment in line with relevant company policies and procedures</li> </ul>							
	<ul> <li>How they have confirmed the recipient/s of the handover process fully understand any critical information given</li> </ul>							
	<ul> <li>How they have completed the company process for reporting/ recording the handover of plant/equipment back into service in line with company procedures</li> </ul>							
Assessor must ask the following standardised questions.		Assessor must record all additio for clarification and the response apprentice including examples.	nal qu prov	uestions asked rided by the	Recording timeline.	Mark awar	ded.	
	Questions							
	Develop some open ended question	าร						





## Pathway: Electrical System and Process Control Role Specialist Skills

<b>EP1</b> Position, assemble, install and assemble, install and dismantle integrated electrical, systems and process control equipment								
Pass Criteria – All to be met		Merit Criteria – Minimum two be met	to	Distinction Criteria – Minimum two to be met				
<ul> <li>A working knowledge of their responsibilities for the range of work activities within their job role</li> <li>How they have used company policies/procedures/specifications</li> </ul>		<ul> <li>A detailed understanding of the range and technical requirements of the plant and equipment worked on</li> <li>A detailed technical</li> </ul>		<ul> <li>An excellent knowledge and understanding in relation to the range and technical requirements of the plant and equipment worked on</li> </ul>				
<ul> <li>to conduct a range of position, assemble, install and dismantle work activities</li> <li>How they have used tools and equipment to conduct a range of position, assemble, install and</li> </ul>		understanding for the range of methods/techniques used for their position, assemble, install and dismantle work activities		<ul> <li>Their ability to explain/justify the Company methods /processes/procedures used for the range of plant and equipment worked on</li> <li>How they have taken a lead in</li> </ul>				
<ul> <li>dismantle activities in compliance with specifications and regulatory requirements</li> <li>How they have conducted the required checks/test procedures to confirm the completed work</li> </ul>		<ul> <li>A detailed technical understanding for the factors which can affect their critical reasoning when making decisions to resolve technical problems</li> </ul>		accepting additional responsibility/autonomy to improve the outcome of their position/assemble/install/dismantle work activities				
meets company/operational requirements		How they have taken a proactive lead in organising/controlling their conducted work activities		tion Engineering Technician				

ENERGY & UTILITY SKILLS

EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



How they have used critical reasoning to identify and resolve technical problems within their control effectively during their		which has led to a successful completion				
<ul> <li>range of work activities</li> <li>How they have reported/recorded the work conducted and returned the work area to a safe condition in line with company procedures</li> </ul>						
Assessor must ask the following standardised questions.		Assessor must record all add asked for clarification and the by the apprentice including e	lition e res xam	al questions ponse provided ples.	Recording timeline.	Mark awarded.
<b>Questions</b> Develop some open ended questions						

E	EP2 Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment								
Pass Criteria – All to be met			Merit Criteria – Minimum two to be metDistinction Criteria – be met		Distinction Criteria – Minimum two be met	- Minimum two to			
•	A working knowledge of their responsibilities for the range of work activities within their job role How they have used company		<ul> <li>A detailed understanding of the range and technical requirements of the plant and equipment worked on</li> </ul>		• An excellent knowledge and understanding in relation to the range and technical maintenance requirements of the plant and				
	policies/procedures/specifications to conduct a range of		• A detailed technical understanding for the range		equipment worked on				



EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



maintenance procedures work activities

 How they have used tools and equipment to conduct a range of maintenance procedures in compliance with all company health, safety and environmental processes, policies and regulatory requirements

- How they have conducted the required checks/test procedures to confirm the completed maintenance work meets company requirements
- How they have used critical reasoning to identify and resolve technical problems within their control effectively during their range of work activities
- How they have reported/recorded the work conducted and returned the work area to a safe condition in line with company procedures

of methods/techniques used Their ability to explain/justify the for maintenance work company maintenance undertaken methods/processes/procedures used for the range of plant and • A detailed technical equipment worked on understanding for the factors which can affect their critical How they have taken a lead in • reasoning when making accepting additional decisions to resolve responsibility/autonomy to improve technical problems the outcome of their maintenance work activities How they have taken a proactive lead in organising/controlling their conducted work activities which has led to a successful completion



 $\square$ 



Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.
<b>Questions</b> Develop some open ended questions			



EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



**EP3** Replace, repair and/or remove components within integrated plant and equipment and ensure its return to operational condition

## AND

**EP4** Diagnose and determine the cause of faults within integrated plant and equipment

Pass Criteria – All to be met			Merit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two	to	
			met	_	be met		
	<ul> <li>A working knowledge of their responsibilities for the range of replace/repair activities undertaken</li> </ul>		<ul> <li>A detailed understanding of the methods and technical requirements for the range of plant and equipment replaced/ repaired</li> </ul>		<ul> <li>An excellent knowledge and understanding in relation to the range and technical requirements of the plant and equipment replaced/repaired</li> </ul>		
	<ul> <li>How they have used company policies/ procedures/specifications to conduct a range of replace/repair work procedures</li> </ul>		<ul> <li>A detailed technical understanding for the range of causes and effects which lead to plant and equipment being replaced/repaired</li> </ul>		<ul> <li>Their ability to explain/justify the company methods/processes/ procedures used for the range of plant and equipment replaced/repaired</li> </ul>		
	<ul> <li>How they have used tools and equipment to conduct a range of replace/repair procedures in compliance with all company health, safety and environmental processes,</li> </ul>		• A detailed technical understanding for the factors which can affect their critical reasoning when making decisions to resolve technical problems		• How they have taken a lead in accepting additional responsibility/autonomy to improve the outcome of their replace/repair work activities		
	policies and regulatory requirements		<ul> <li>How they have taken a pro- active lead in</li> </ul>				



EUIAS Level 3 End-point Assessment for Maintenance and Operation Engineering Technician (Electrical System and Process Control) EPA Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



How they have conducted required checks/test procedures to confirm the plant/equipment worked of can be returned to operations service	d the	organising/controlling their conducted replace/repair work activities which has led to a successful completion			
How they have used critic reasoning to identify and resolve technical problem within their control	cal ns				
<ul> <li>How they have returned plant/equipment worked of operational service in line company procedures</li> </ul>	on to e with				
Assessor must ask the following standardised questions.		Assessor must record all addition for clarification and the response apprentice including examples.	nal questions asked provided by the	Recording timeline.	Mark awarded.
Questions Develop some open ended o	questions				





EP5 Calibrate and configure integrated electrical apparatus, systems and process control equipment								
Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to						
	met	be met						
A working knowledge of their responsibilities for the range of diagnostic activities undertaken	<ul> <li>A detailed knowledge of the principles of calibration and/or configuration of plant and equipment</li> </ul>	How they would identify and implement potential changes to improve the efficiency of calibration and/or configuration						
<ul> <li>How they calibrated instruments to a given specification</li> <li>How they planned calibration activities to minimise operational conditions</li> <li>How they selected the appropriate tools and equipment for specific calibration and/or configuration activities</li> <li>A working knowledge of the company procedures and regulatory requirements that must be followed when calibrating and/ or configuring</li> </ul>	<ul> <li>Detailed knowledge of the ways to minimise risk of all planned shutdowns during calibration and/or configuration activities</li> <li>How they would work with in a team to identify improvements on calibration and/or configuration activities</li> <li>How they would report any potential improvements associated with calibration and/or configuration activities</li> </ul>	<ul> <li>activities</li> <li>How they reported or dealt with instruments that failed to meet calibration and/or configuration compliance</li> <li>How they took an autonomous role during calibration and/or configuration activities</li> </ul>						
calibrating and/ or configuring instruments								





•	How they applied a calibration that was both accurate and consistent				
•	How they recorded the outcomes of calibration and/or configuration activities				
Assessor must ask the following standardised questions.		Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awar	ded.
Q D	uestions evelop some open ended question				





# Appendix G: Portfolio Mapping Document

# Introduction

Throughout the on-programme part of the apprenticeship, the apprentice will need to compile a portfolio of evidence to support the requirements of the technical interview which is based on the portfolio. The evidence within the portfolio will need to be mapped by the apprentice to the KSB requirements using the portfolio mapping document below.

The independent assessor will use the portfolio mapping document to review the evidence in the apprentice's portfolio in preparation for the technical interview.

The portfolio mapping document below consists of the core requirements and specialist skills.

## Apprentices next steps

- 1. Complete all the details on the first page and include employer details of where relevant competencies from their experience at work was gained.
- Ensure each piece of evidence is signed off by their tutor/supervisor/mentor and training provider. The apprentice can use a number of different types of evidence to demonstrate their competence as described in Section 5 of the Specification – 'What to include in the portfolio of evidence'. For further guidance, the apprentice must seek advice from their tutor/supervisor/mentor and training provider.
- 3. Map evidence to the criteria in the following pages using a referencing system indicating where the evidence for the criteria is located in the portfolio e.g., work based evidence Job 1 (J1) page 5 paragraph 2. This will allow the independent assessor, appointed by the EUIAS to locate the section or specific piece of evidence being discussed and referred to during the interview.
- 4. Place the portfolio mapping document at the front of the portfolio of evidence.

The apprentice's training provider must make arrangements for EUIAS to have access to the apprentice's portfolio including the portfolio mapping document at Gateway. For those using e-portfolios such as ONEFILE or SMARTASSESSOR the reference used must simply be the file or folder name you used when uploading the evidence to such systems.



## Portfolio Mapping Document

This document must be placed at the front of the Portfolio and submitted to EUIAS with the Portfolio.

Mapping Sign off on Completion:

Apprentice Full Name (Print)	Apprentice Signature	Training Provider (Company)	Training Provider Full Name of Signatory	Date of Sign Off

## Core Knowledge

		PORTFOLIO							
Pof	Apprenticeship Standard Criteria		REVIEW						
Rei.			entice	Input)					
		1	2	3					
K1	First principles relating to operation and maintenance of plant and equipment								
К2	Relevant industry health and safety standards, regulations and environmental and regulatory requirements								
K3	Maintenance and operational practices, processes and procedures								
K4	Relevant engineering theories and principles								
Asse	Assessor Comments:								



### **Core Skills**

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input)					
		1	2	3			
S5	Locate, and rectify faults on plant and equipment						
S6	Read, understand, interpret and work to technical information						
S7	Inspect and maintain plant and equipment						
S8	Communicate, handover and confirm that the appropriate engineering process has been completed						
Asse	Assessor Comments:						



## **Core Behaviours**

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input)				
		1	2	3		
B5	Critical reasoning					
Assessor Comments:						

EUIAS Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Elecltrical System and Process Control) Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills



### Pathway: Electrical System and Process Control Specific Skills

Ref.	Apprenticeship Standard Criteria	PORTFOLIO				
		REVIEW				
		(Apprentice Input)				
		1	2	3		
EP1	Position, assemble, install and dismantle integrated electrical apparatus, systems and process control equipment					
EP2	Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment					
EP3	Replace, repair and/or remove components within integrated plant and equipment and ensure its return to operational condition					
EP4	Diagnose and determine the cause of faults within integrated plant and equipment					
EP5	Calibrate and configure integrated electrical apparatus, systems and process control equipment					
Assessor Comments:						



### © Energy & Utility Skills

All rights reserved. No part of this publication may be reproduced, stored in a retrievable system, or transmitted in any form or by any means whatsoever without prior written permission from the copyright holder. <u>www.euskills.co.uk</u>

EUIAS Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Electrical System and Process Control) Supporting Documents QAN: 603/7266/7 – ST0154/AP02 v3.0 © 2023 Energy & Utility Skills